

Figure 1

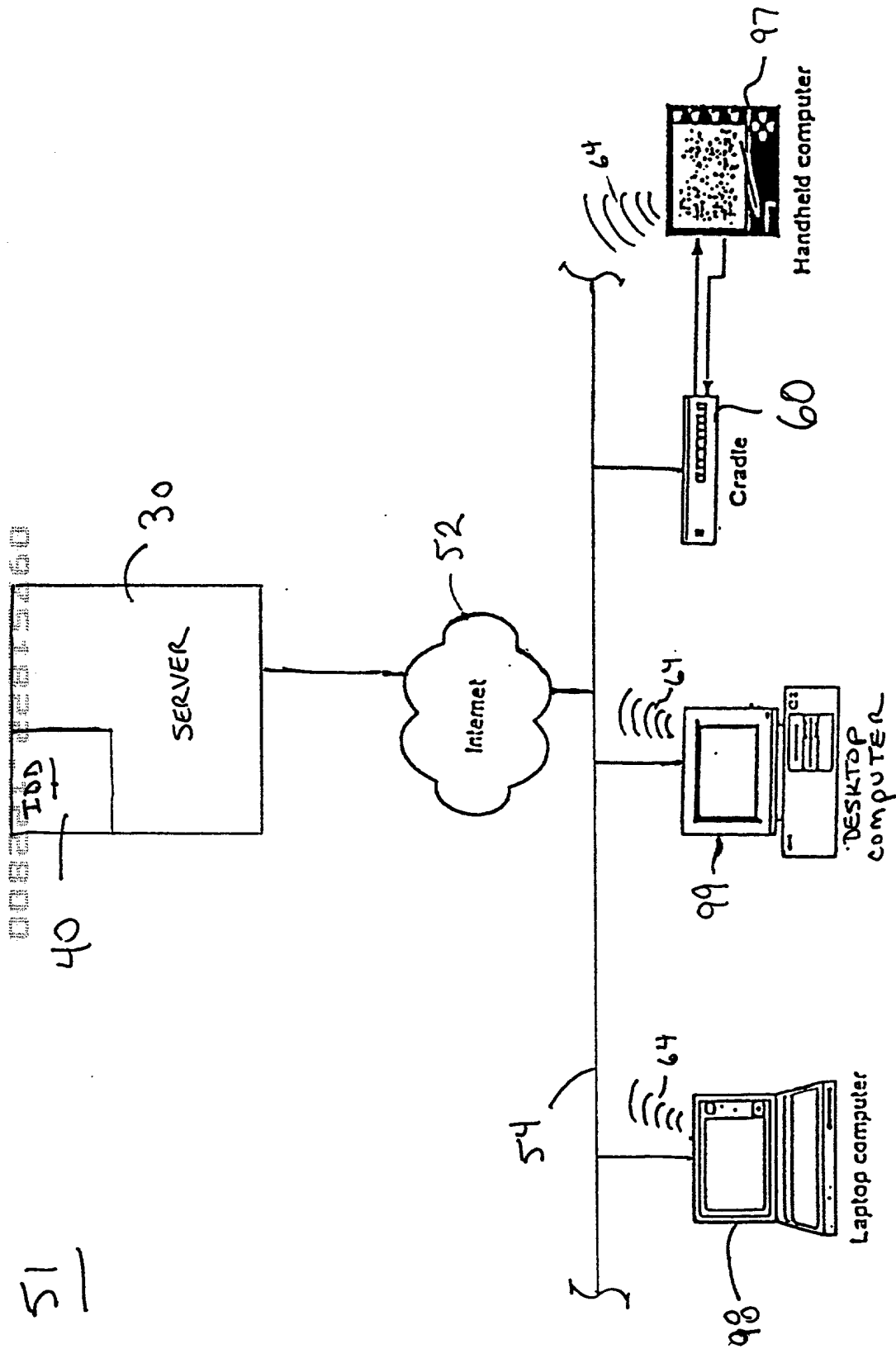


FIGURE 2

100

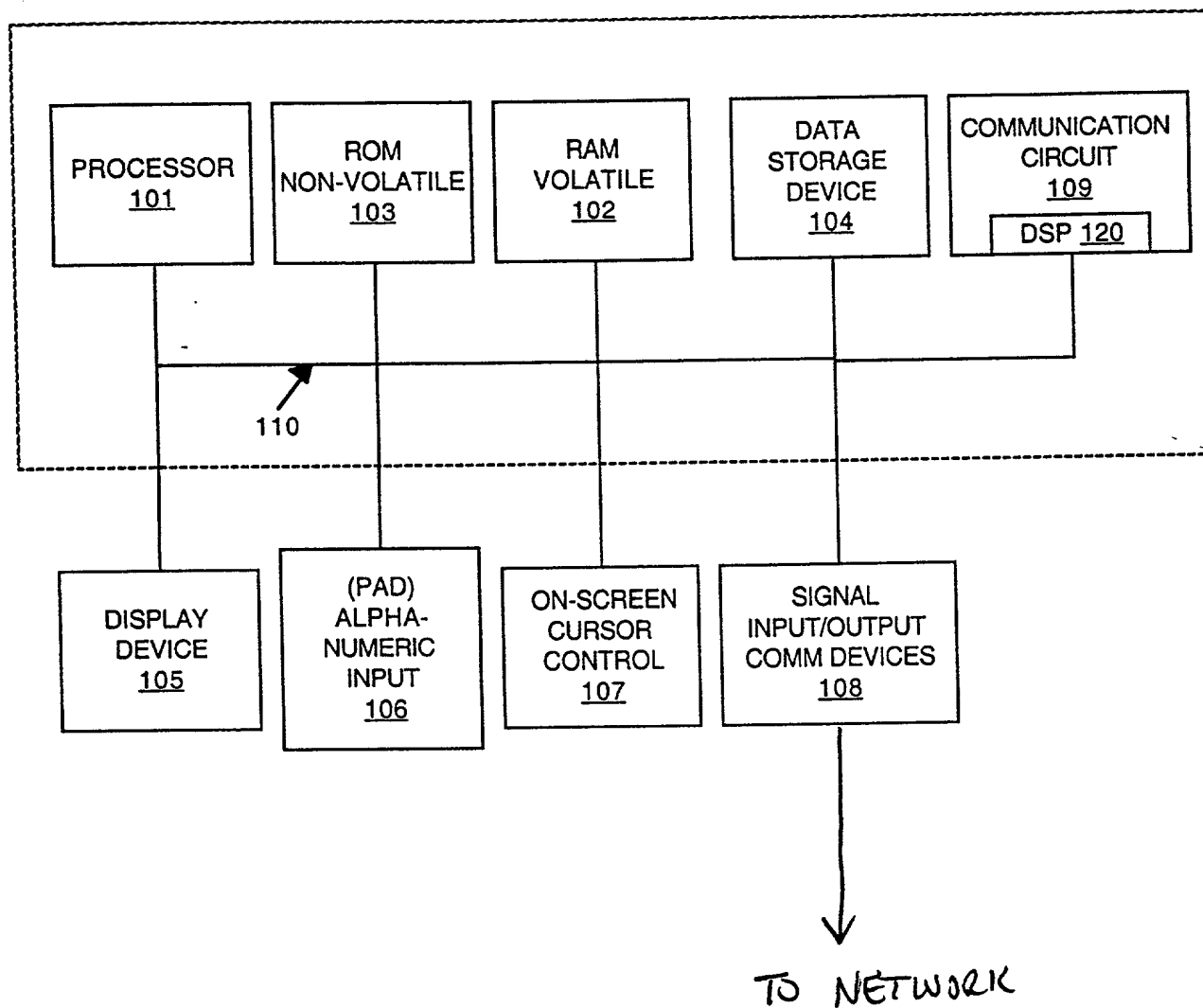


Figure 3

170

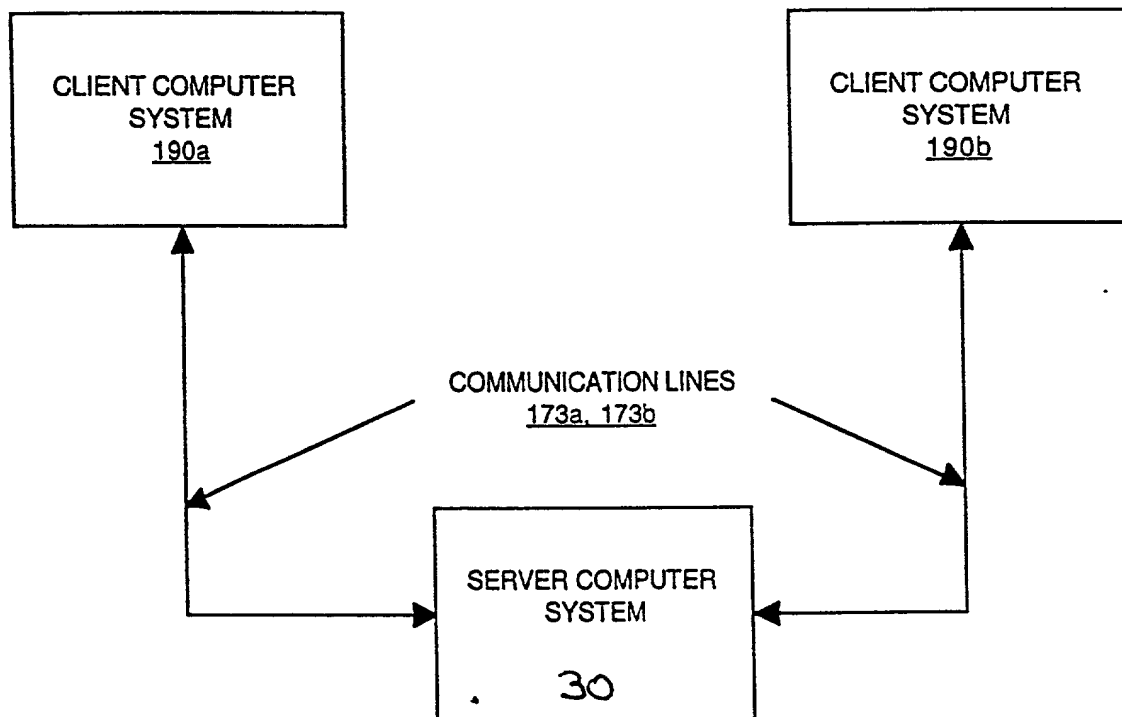


Figure 4

200

October 23, 2000

500

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203

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202

FIGURE 5

211



200

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FIGURE 6B



FIGURE 6C

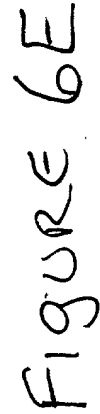


2007



FIGURE 6D

204 ~



# Figure 6E

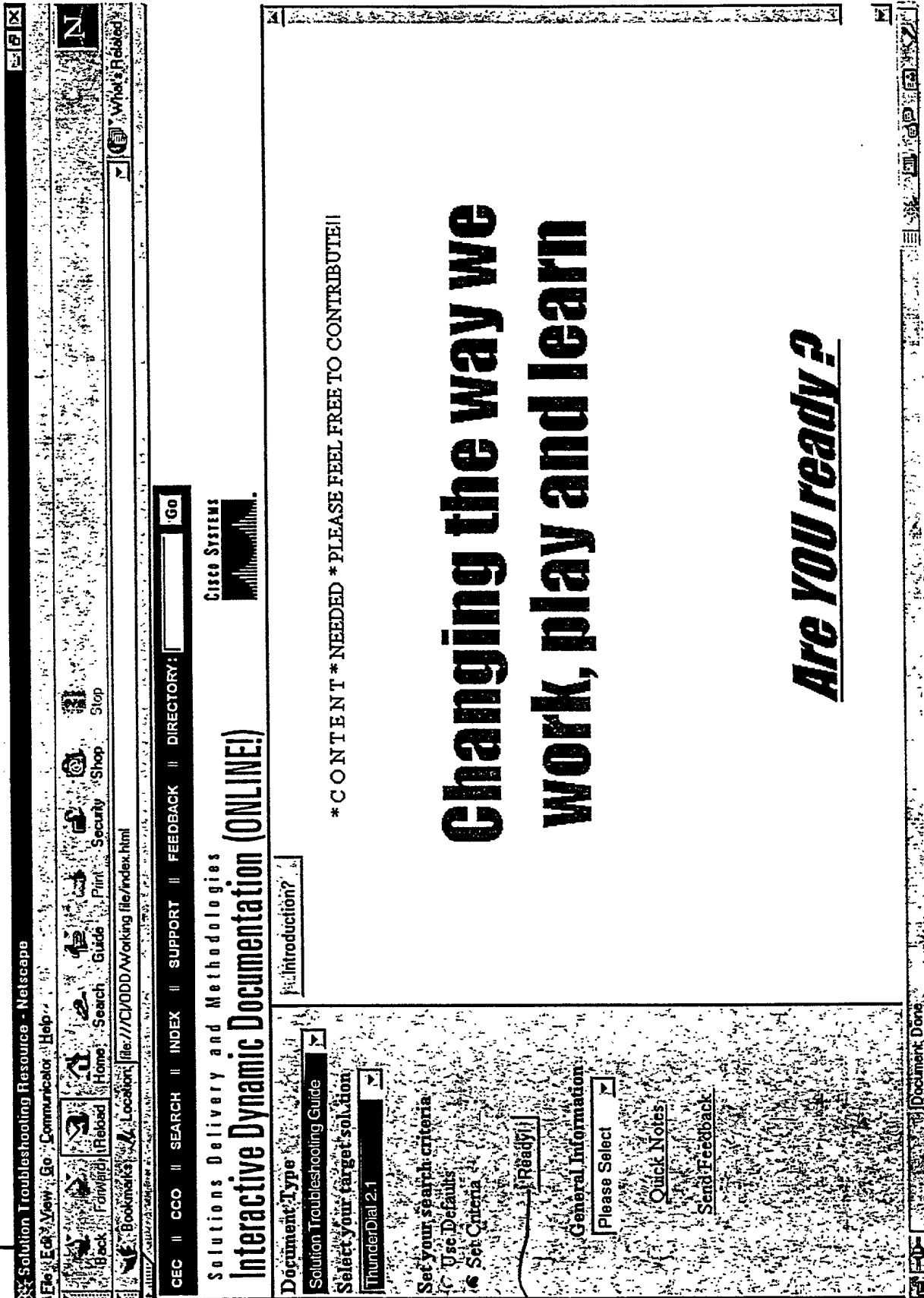


FIGURE 6F

200

003221 22315460

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**Thunder Dial 2.1 Solution Overview**

The Cisco SS7 Interconnect for Access Servers Solution is a distributed system used for interconnecting Cisco network access servers (NASSs) to a circuit-switched TDM network using Signaling System #7 (SS7) protocols for signaling. The interconnections are achieved using a protocol conversion platform called the Cisco Signaling Controller combined with the Cisco Signaling Link Terminal. The Cisco SC2200 comprises the hardware and software package that provides the signaling controller function in the Cisco SS7 Interconnect for Access Servers Solution. It provides high availability, high performance, and key scaling.

When large points of presence (POPs) receive calls from the Public Switched Telephone Network (PSTN), the traffic is running over legacy architectures. In-band signaling (such as Integrated Services Digital Network Primary Rate Interfaces (ISDN PRI)s) or single analog lines) rather than out-of-band signaling like SS7 is used. With both in-band channel-associated signaling (CAS), or single analog lines) rather than out-of-band signaling like SS7 is used. With both signaling and bearer traffic running over the lines, these legacy switches become congested with modem traffic and limited circuits. Cisco offers the Cisco SS7 Interconnect for Access Servers Solution that offloads the signaling to an out-of-band network so that available bandwidth increases.

The Cisco SS7 Interconnect for Access Servers Solution is a distributed system that adds SS7 signaling interfaces to large ISP POPs. SS7 interfaces are connected to the PSTN by using the same signaling technology as a PSTN switch. The Cisco SS7 Interconnect for Access Servers Solution consists of the Cisco signaling controller (also referred to as the Cisco SC2200 product), which includes the Cisco Signaling Link Terminal (Cisco SLT) and the network access server (NAS). The Cisco SS7 Interconnect for Access Servers Solution turns a POP into an end-office switching system in the PSTN, allowing direct peer-to-peer signaling connectivity. The POP, as a switch, connects directly to the rest of the network as a peer. After connections to the Internet are aggregated at a POP, streams of user packets are statistically multiplexed for efficient transport over the backbone network.

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FIGURE 7A

FIGURE 8A

FIGURE 8A

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Product Thunder Dial 2.1

Criteria SLT 12.1.3  
NAS 12.1.10  
MGC 7.4.1

805B ~ 1 MML Commands

806B ~ 2 Thunder Dial Solution Overview

807B ~ 3 Solution Hardware

808B ~ 4

Single and Dual Configuration

Problem Isolation

Recommended Troubleshooting Sequence

Troubleshooting The SC2200 Signal Controller

Physical Layer

Netra LEDs

SLT (2600) LEDs

Verify Component Configuration

Checking Processes

Checking Processes via UNIX

Checking Processes via MML

802

803

804

4.1

4.1.1

4.2

4.2.1

4.2.2

4.2.3

6.0

6.1

6.2

Document Done

FIGURE 8B

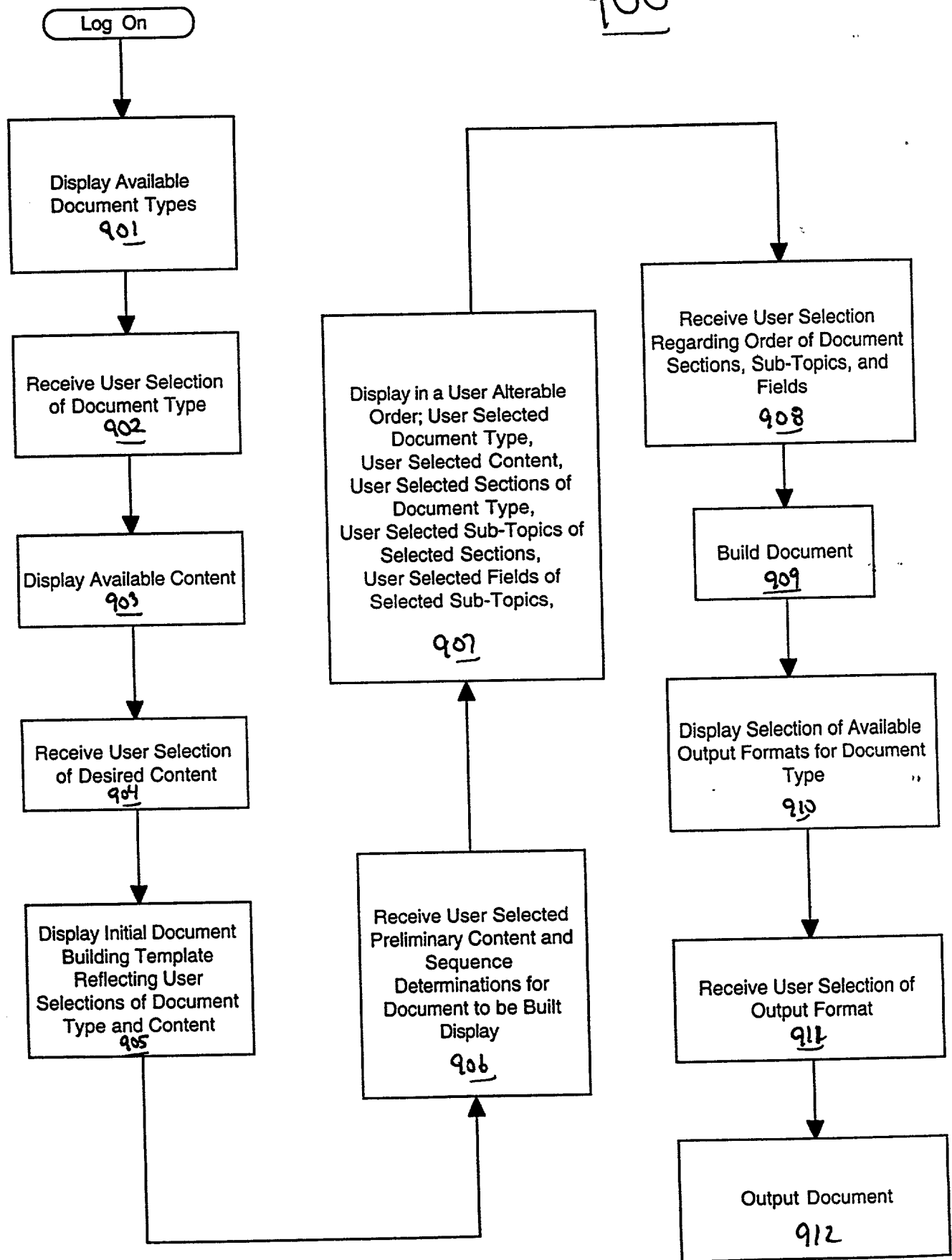


FIGURE 9